

AMENDMENTS TO THE SPECIFICATION

Please amend paragraph [0005] on page 23 as follows:

[0005] In FIG. 18, the conventional transfer apparatus is composed of a transmission apparatus and a reception apparatus. The transmission apparatus comprises a preamble generating section 901, data ~~demodulating~~ modulating sections 902 and 903, multiplexers 904 and 905, orthogonal modulation sections 906 and 907, a local oscillator 908, and transmission antennas TX1 and TX2. The reception apparatus comprises reception antennas RX1 and RX2, a local oscillator 909, orthogonal demodulation sections 910 and 911, frequency error estimating sections 912 and 913, an averaging section 914, frequency correcting sections 915 and 916, an inverse propagation function estimating section 917, and data demodulating sections 918 and 919.

Please amend paragraph [0005] on page 23 as follows:

[0041] Hereinafter, operations of the transmission apparatus and the reception apparatus included in the transfer apparatus of the first embodiment will be described.

[Operation of transmission apparatus]

In the transmission apparatus, the synchronization subsymbol generating sections 101 and 105 generate the synchronization subsymbols Stx which are different among the transmission antennas. Specifically, the ~~the~~ synchronization subsymbol generating section 101 generates a synchronization subsymbol Stx1 for the transmission antenna TX1. The synchronization subsymbol generating section 105 generates a synchronization subsymbol Stx2 for the transmission antenna TX2. FIG. 2 is a diagram for explaining the synchronization subsymbols Stx1 and Stx2.